

WHAT IS CLAIMED IS:

1. A lubrication structure for a rolling bearing,
comprising:

5 a lubrication oil hole that radially penetrates
through an inner ring of the rolling bearing;

an oil accumulating room of which rotational axis is
the same as a rotational axis of the rolling bearing and
that accumulates lubrication oil by using a centrifugal
10 force thereof;

a lubrication oil supplying path that communicates
with the oil accumulating room and the lubrication oil hole;
and

a fin member that is installed in the oil accumulating
15 room and causes the lubrication oil to follow rotation of
the oil accumulating room so that the lubrication oil is
forcibly rotated,

wherein an oil supplying pressure generated by the
centrifugal force causes the lubrication oil in the oil
20 accumulating room to be supplied to an inside of the rolling
bearing via the lubrication oil supplying path and the
lubrication oil hole.

2. The lubrication structure for the rolling bearing
25 according to claim 1, wherein the fin member extends in a
radial direction and an axial direction.

3. The lubrication structure for the rolling bearing according to claim 2, wherein the fin member is installed at a plurality of positions in a circumferential direction.

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4. A machine that uses a rolling bearing and has a lubrication structure for the rolling bearing, wherein the lubrication structure comprises:

a lubrication oil hole that radially penetrates
10 through an inner ring of the rolling bearing;

an oil accumulating room of which rotational axis is the same as a rotational axis of the rolling bearing and that accumulates lubrication oil by using a centrifugal force thereof;

15 a lubrication oil supplying path that communicates with the oil accumulating room and the lubrication oil hole; and

a fin member that is installed in the oil accumulating room and causes the lubrication oil to follow rotation of
20 the oil accumulating room so that the lubrication oil is forcibly rotated,

wherein an oil supplying pressure generated by the centrifugal force causes the lubrication oil in the oil accumulating room to be supplied to an inside of the rolling
25 bearing via the lubrication oil supplying path and the lubrication oil hole.

5. The machine according to claim 4, wherein the machine is a gas-turbine engine or a supercharger.